IN THE CLAIMS:

Please substitute the following listing of claims for the previous claims:

- (Currently amended) A substrate processing chamber component 1. capable of being exposed to a plasma in a process chamber, the component comprising: a substrate processing chamber component structure (a) comprising a metal; and an electroplated coating on the substrate processing (b) chamber component structure, the electroplated coating comprising an interface having a thickness with a gradually changing concentration of yttrium-containing species therethrough , and the electroplated coating formed by: immersing the surface of the component structure in an electroplating bath comprising a solution of yttrium species; connecting the component structure to a negative terminal of a voltage source; and (iii) connecting an anode immersed in the bath to a
- 2. (Original) A component according to claim 1 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- (Original) A component according to claim 1 wherein the yttriumcontaining species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide or zirconium oxide.
- 4. (Previously Presented) A component according to claim 3 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.

positive terminal of the voltage source.

- 5. (Original) A component according to claim 3 wherein the electroplated coating comprises partially stabilized zirconium oxide.
- 6. (Currently amended) A component according to claim 1 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the yttrium-containing aluminum-containing species therethrough.
 - 7. (Currently amended) A substrate processing chamber comprising:
 - (a) a wall around a process zone;
 - (b) a substrate support in the process zone;
 - (c) a ring about the substrate;
 - (d) a gas distributor;
 - (e) a gas energizer; and
 - (f) a gas exhaust port,

wherein at least one of the wall, substrate support, ring, or gas distributor, comprises a component capable of being exposed to a plasma in a process chamber, the component comprising a structure comprising a metal, and having an electroplated coating comprising an interface having a thickness with a gradually changing concentration of yttrium-containing species therethrough that is formed by:

(i) immersing a surface of the structure in an electroplating bath comprising an aqueous solution of yttrium species;

(ii) connecting the structure to a negative terminal of a voltage source; and

(iii) connecting an anode immersed in the bath to a positive terminal of the voltage source, and whereby a substrate transported into the process chamber can be processed by a gas released by the gas distributor, energized by the gas energizer, and exhausted by

from the gas exhaust port.

- 8. (Previously presented) A chamber according to claim 7 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- 9. (Previously presented) A chamber according to claim 7 wherein the yttrium-containing species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide or zirconium oxide.
- 10. (Previously presented) A chamber according to claim 7 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.
- 11. (Previously presented) A chamber according to claim 7 wherein the electroplated coating comprises partially stabilized zirconium oxide.
- 12. (Currently amended) A chamber according to claim 7 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the https://example.com/yttrium-containing-aluminum-containing-species therethrough.
 - 13 24. (Cancelled).
- 25. (Previously presented) A component according to claim 1 wherein the electroplated coating is fabricated by annealing a first electroplated layer comprising aluminum or zirconium, and a second electroplated layer comprising yttrium.
- 26. (Previously presented) A component according to claim 25 comprising annealing the layers to form oxidized species.

- 27. (Previously presented) A component according to claim 1 wherein the electroplated coating is fabricated by electroplating a layer comprising a mixture of (i) yttrium and (ii) aluminum or zirconium onto the surface, and annealing the layer.
- 28. (Currently amended) A substrate processing chamber component capable of being exposed to a plasma in a process chamber, the component comprising:
 - (a) a substrate processing chamber component structure; and
- (b) an electroplated coating on the substrate processing chamber component structure, the electroplated coating comprising yttrium-containing species and partially stabilized zirconium oxide, and the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.
- 29. (Previously presented) A component according to claim 28 wherein the yttrium-containing species comprises one or more of elemental yttrium and yttrium oxide.
- 30. (Previously presented) A component according to claim 28 wherein the yttrium-containing species comprises yttrium oxide, and wherein the electroplated coating further comprises aluminum oxide.
- 31. (Previously presented) A component according to claim 28 wherein the electroplated coating comprises a compound comprising yttrium oxide and aluminum oxide.
- 32. (Currently amended) A chamber according to claim 28 wherein the electroplated coating comprises a thickness having a gradually changing concentration of the https://example.com/yttrium-containing-aluminum-containing-species therethrough.

- 33. (Previously presented) A component according to claim 28 comprising a chamber wall, substrate support, ring, or gas distributor, of a process chamber.
- 34. (Currently amended) A component according to claim 1 wherein the electroplated coating is formed by:
- (i) immersing the surface of the component structure in an electroplating bath comprising a solution of yttrium species;
- (ii) connecting the component structure to a negative terminal of a voltage source; and
- (iii) connecting an anode immersed in the bath to a positive terminal of the voltage source, the anode comprises comprising an inert material or the material to be electroplated.
- 35. (Currently amended) A component according to claim 1 wherein the electroplating bath comprises a yttrium containing electrolyte metal comprises an alloy.
- 36. (Currently amended) A chamber according to claim 7 wherein the electroplated coating is formed by:
- (i) immersing the surface of the component structure in an electroplating bath comprising a solution of yttrium species;
- (ii) connecting the component structure to a negative terminal of a voltage source; and
- (iii) connecting an anode immersed in the bath to a positive terminal of the voltage source, the anode comprises comprising an inert material or the material to be electroplated.

- 37. (Currently amended) A chamber according to claim 7 wherein the electroplating bath comprises a yttrium containing electrolyte metal comprises an aluminum alloy.
- 38. (New) A substrate processing chamber component capable of being exposed to a plasma in a process chamber, the component comprising:
 - (a) a substrate processing chamber component structure; and
- (b) an electroplated coating on the substrate processing chamber component structure, the electroplated coating comprising (i) yttriumcontaining species, (ii) aluminum-containing species, and (iii) zirconium-containing species.
- 39. (New) A component according to claim 38 wherein the component structure comprises a metal.
- 40. (New) A component according to claim 38 wherein the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.
 - 41. (New) A substrate processing chamber comprising:
 - (a) a wall around a process zone;
 - (b) a substrate support in the process zone;
 - (c) a ring about the substrate;
 - (d) a gas distributor;
 - (e) a gas energizer; and
 - (f) a gas exhaust port,

wherein at least one of the wall, substrate support, ring, or gas distributor, comprises a component capable of being exposed to a plasma in a process chamber, the component comprising a structure having an electroplated coating comprising yttrium-containing species and partially stabilized zirconium oxide.

- 42. (New) A chamber according to claim 41 wherein the component structure comprises a metal.
- 43. (New) A chamber according to claim 41 wherein the electroplated coating comprising a thickness having a gradually changing concentration of yttrium-containing species therethrough.